

# Notice of Allowability

Application No.

09/454,969

Examiner

Abbas I Abdulsalam

Applicant(s)

FUKUDA, RYOJI

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2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/24/04.
2. ☒ The allowed claim(s) is/are 1, 2, 4, 7-14, 22, 23, 25, 28-34, 42, 43, 45, 48-54 and 62-64 (renumbered as claims 1-34).
3. ☒ The drawings filed on 06 December 1999 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

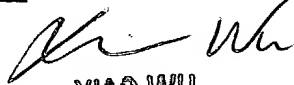
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
XIAO WU  
PRIMARY EXAMINER

## DETAILED ACTION

### *Allowable Subject Matter*

1. The following is an examiner's statement of reasons for allowance:

Babb et al. (USPN 5940065) teach a general method for producing a touch screen system that provides accurate positional information. Babb et al. disclose utilizing a set of sensed signals that are unique to each location on the touch screen sensor, and equations for X and Y that are derived via curve fitting methods such that the coefficients of the equations are stored with the sensor (see the abstract).

Regarding claim 1, none of the cited prior art teaches or suggests a coordinates correction apparatus comprising: coordinate input means being placed on a display unit; display control means for controlling display of a plurality of reference points on the display units the reference points indicating positions for use in calculating coordinates correction parameters, wherein said coordinate input means inputs a coordinate corresponding to one of the displayed reference points based on a user designation; coordinate reception means for receiving the coordinate input by said coordinate input means corresponding to the one of the displayed reference points ; discriminating means for discriminating among the displayed reference points a reference point corresponding to the coordinate received by said coordinate reception means; coordinates keeping means for keeping the coordinate receiving by said coordinate reception means as the coordinate corresponding to the reference point discriminated by said discriminating means; repeating means for repeating processes of said display control means, said coordinate reception

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means, said discriminating means and said coordinates keeping means to obtain coordinates for remaining reference points for which a coordinate is not kept by said coordinates keeping means wherein said display control means is controlled to display only the remaining reference points; parameter calculation means for calculating coordinates correction parameters for nonlinear conversion, based on the coordinates kept by said coordinate keeping means; parameter keeping means for keeping the calculated coordinates correction parameters for nonlinear conversion; and coordinates correction means for correcting the coordinates input via said coordinates input means by the nonlinear conversion using the calculated coordinates correction parameters,

Regarding claim 22 (renumbered as claim 13) none of the cited prior art teaches or suggests a coordinates correction method for controlling a coordinates correction apparatus which has a coordinate input means placed on a display unit, the method comprising: controlling display of a plurality of reference points on the display unit, the reference points indicating positions for use in calculating coordinates correction parameters, wherein said coordinate input means inputs -a coordinate corresponding to one of the displayed reference points based on an user designation; receiving the coordinate input by said coordinate input means corresponding to the one of the displayed reference points discriminating, among the displayed reference points, a reference point corresponding to the received in said receiving step; keeping the coordinate received in said receiving step as the coordinate corresponding to the reference point discriminated in said discriminating step as the coordinate corresponding to the reference point discriminated in said discriminating step; repeating said display controlling, receiving

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discriminating and keeping steps to obtain coordinates for remaining reference points for which a coordinate is not kept in said keeping step, wherein said display controlling step controls display of reference points to display only the remaining reference points; calculating coordinates correction parameters for nonlinear conversion, based on the coordinates kept in said step of keeping user-designated coordinate; keeping the calculated coordinates correction parameters for nonlinear conversion; and correcting the coordinates input inputted in the coordinates receiving step by the nonlinear conversion using the calculated coordinates correction parameters.

Regarding claim 42 (renumbered as claim 24), none of the cited prior art teaches or suggests a computer-readable memory medium for storing a coordinates correction control program for controlling a coordinates correction apparatus which has a coordinate input means placed on a display unit, execution steps of the program comprising: controlling display of a plurality of reference points on the display unit, the reference points indicating positions for use in calculating coordinates correction parameters, wherein said coordinate input means inputs a coordinate corresponding to one of the displayed reference points based on an user designation; receiving the coordinate input by said coordinate input means for the displayed reference points discriminating, among the displayed reference points, a reference point corresponding to the coordinate received in said receiving coordinates step; keeping the coordinate receiving in said coordinate receiving step as the coordinate corresponding to the reference point discriminated in said discriminating step; repeating said display controlling, receiving; discriminating and keeping steps to obtain coordinates for remaining, reference points for which a coordinate is not

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kept in said keeping step, wherein said display controlling step controls display of reference points to display only the remaining reference points; calculating coordinates correction parameters for nonlinear conversion, based on the coordinates kept in said step of keeping user-designated coordinates; keeping the calculated coordinates correction parameters for nonlinear conversion; and correcting the coordinates input in the coordinates receiving step by the nonlinear conversion using the calculated coordinates correction parameters:

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### *Conclusion*

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following art is cited for further reference.

U.S. Pat. No. 6,339,748 to Hiramatsu

3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abdulsalam** whose telephone number is **(703) 305-8591**. The examiner can normally be reached on Monday through Friday (9:00-5:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard Hjerpe**, can be reached at **(703) 305-4709**.

**Any response to this action should be mailed to:**

Commissioner of patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314**

Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 customer Service office whose telephone number is (703) 306-0377.

Abbas Abdulsalam

Examiner

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11/18/04

  
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